1U4
SHARP-CUTOFF PENTODE
MINIATURE TYPE

GENERAL DATA

Electrical:

Filament, Coated:		
Voltage	1.4	dc volts
Current	0.05	amp
Direct Interelectrode Capacitances: ←		
Grid No.1 to plate°	0.01 max.	μμf
Grid No.1 to filament (-) & grid No.3 & internal shield, and grid No.2•	3.6	μμf
Plate to filament (-) & grid No.3 & internal shield, and grid No.2•	7.5	μμf

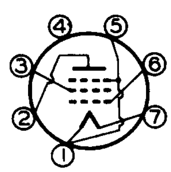
Characteristics, Class A_1 Amplifier:

Plate Voltage	90	volts
Grid-No.2 Voltage	90	volts
Grid-No.1 Voltage	0	volts
Plate Resistance (Approx.)	1	megohm ←
Transconductance	900	μmhos
Plate Current	1	ma ←
Grid-No.2 Current	0.5	ma ←
Grid-No.1 Voltage (Approx.) for transconductance of 10 μmhos	-4	volts ←

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Maximum Diameter	3/4"
Bulb	T-5-1/2
Base	Small-Button Miniature 7-Pin (JETEC No.E7-1)
Basing Designation for BOTTOM VIEW	6AR

Pin 1 - Filament (-), Grid No.3, Internal Shield
Pin 2 - Plate
Pin 3 - Grid No.2
Pin 4 - No Connection



Pin 5 - Filament (-), Grid No.3, Internal Shield
Pin 6 - Grid No.1
Pin 7 - Filament (+)

AMPLIFIER - Class A_1

Maximum Ratings, *Design-Center Values:*

PLATE VOLTAGE	110 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	110 max.	volts

° Without external shield.

• With external shield JETEC No.316 connected to pin No.1 or pin No.5.

← Indicates a change.

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GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value	0 max.	volts
→ TOTAL CATHODE CURRENT	6 max.	ma

Typical Operation as Resistance-Coupled Amplifier:

See RESISTANCE-COUPLED AMPLIFIER CHART No.3 at front of this Section

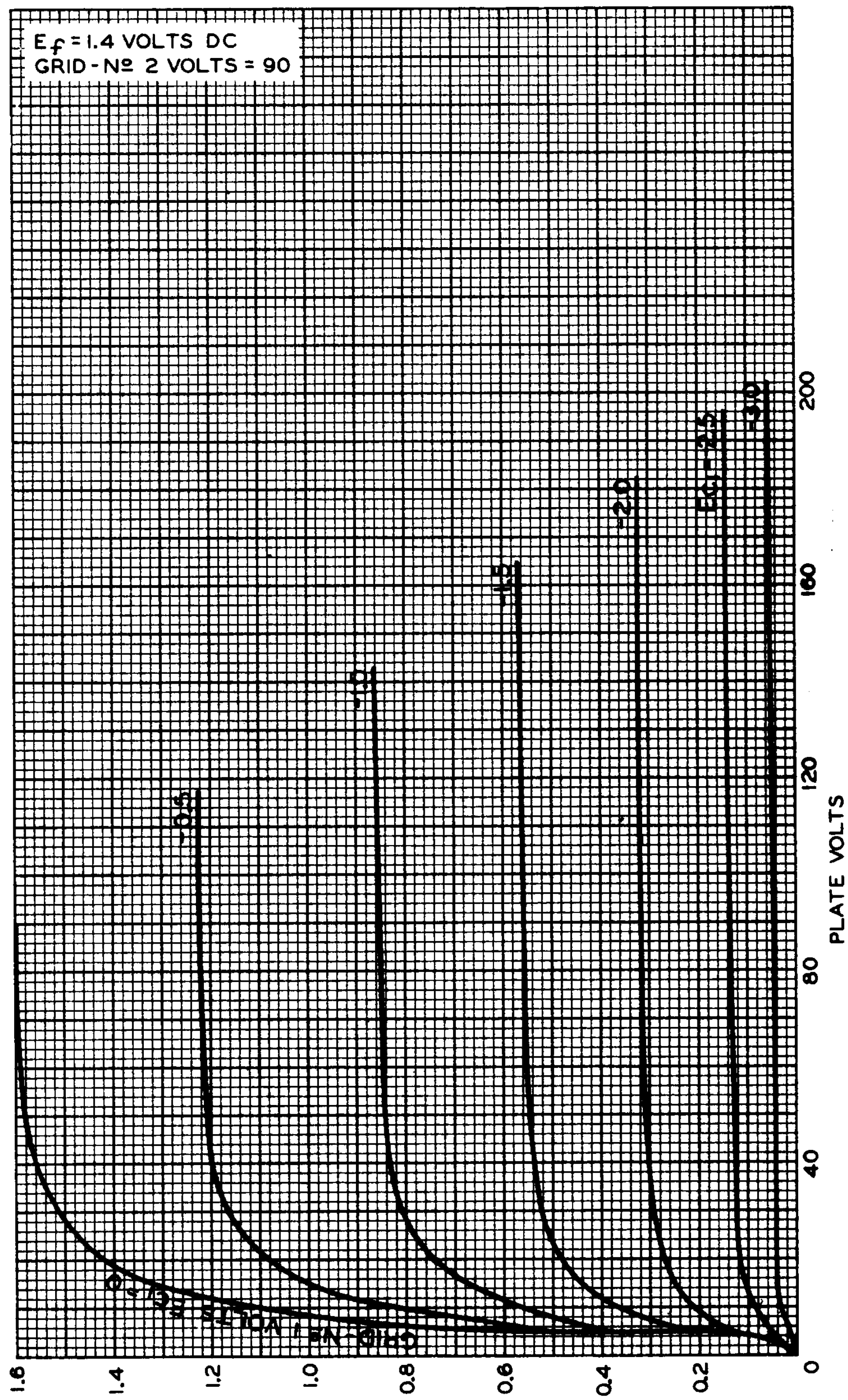
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AVERAGE PLATE CHARACTERISTICS



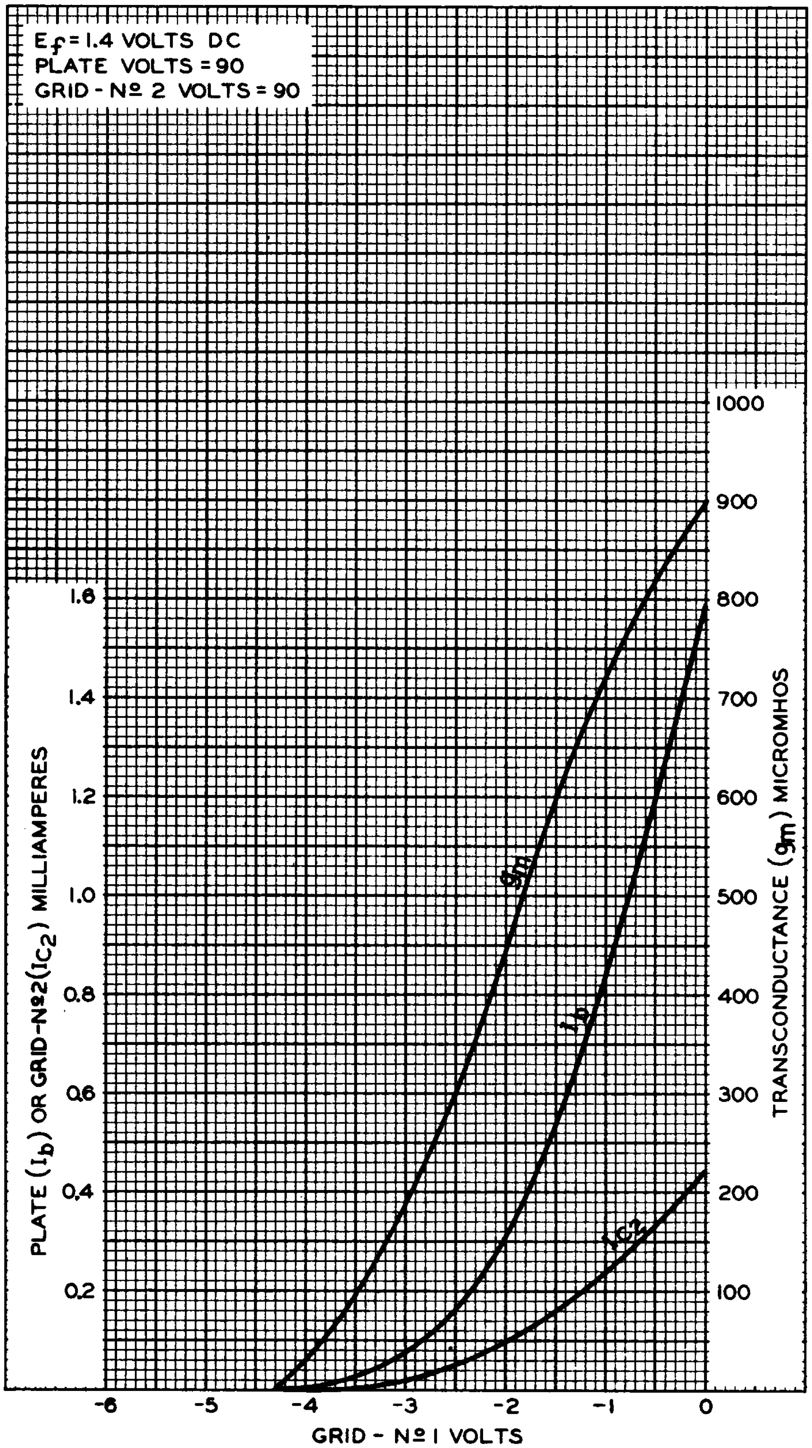
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AVERAGE CHARACTERISTICS



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